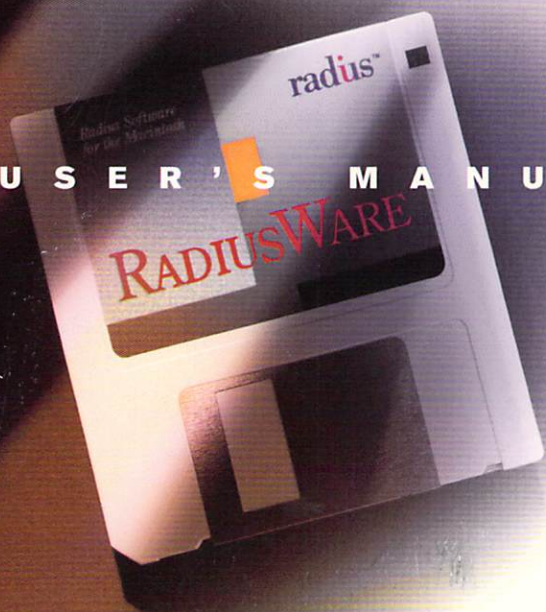


RADIUS SOFTWARE FOR MACINTOSH

RadiusWare™

U S E R ' S M A N U A L



radius™



Radius

Extends

Your

Investment

with a Full

One (1) Year

Warranty.

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For warranty service, return the defective product, transportation and insurance charges prepaid, to a Radius Authorized Dealer with your name, address, telephone number, a description of the problem, and a copy of a bill of sale bearing a Radius serial number as proof of original retail purchase. Radius will not accept responsibility for loss or damage in transit.

This warranty does not apply if the Radius serial number has been removed or if the product has been damaged by misuse, accident, modification or unauthorized repair.

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RadiusWare™ User's Manual

June 1993

Radius Inc
San Jose, California



Printed in the United States on recycled paper

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Introduction

Congratulations on your purchase of a Radius display system. Included with your system is RadiusWare™, the advanced system software that allows you to be more productive when working with high-resolution displays. RadiusWare also includes software for specific Radius products; for instance, Soft Pivot™, that allows Pivot® displays connected to the built-in video port of a Macintosh to operate in both vertical (portrait) and horizontal (landscape) orientations.

This manual contains the general installation and operating instructions for RadiusWare. Specialized chapters explain how to use RadiusWare features that pertain to specific Radius products.

Before you install RadiusWare, make sure that your Radius display is installed and operational. Installation instructions, and information about how to connect Radius displays to your Macintosh computer appear in the display's user's manual.

About This Manual

This manual provides specific steps for the installation and use of RadiusWare for Macintosh computers, as well as tips for using Radius products. It is divided into six chapters and includes a table of contents and an index.

- Chapter 1** *Getting Started* explains how to install RadiusWare on your startup disk and how to set up your display.
- Chapter 2** *General RadiusWare Features* explains the controls and features of RadiusWare.
- Chapter 3** *Dynamic Desktop Features* explains the RadiusWare features and controls used with Radius Pivot and PrecisionColor displays.
- Chapter 4** *Soft Pivot for Built-in Video* describes Soft Pivot (the software that enables the built-in video port to emulate a Pivot interface card) and allocating memory for displaying colors and grays.
- Chapter 5** *QuickDraw Acceleration* explains how to use the QuickDraw acceleration feature of Radius interface cards that support acceleration.
- Chapter 6** *Reference* contains a troubleshooting section, as well as customer service and warranty information.

How to Use This Manual

RadiusWare provides a variety of features that make it easier and more convenient to work with your Macintosh. Because of the wide range of Radius products that are designed to work with RadiusWare, one or more of the chapters in this manual will relate to the features that are available for your particular Macintosh system.

Chapter 1

Getting Started

This chapter explains how to install RadiusWare and configure your display using the RadiusWare and Monitors control panels.

Your Radius display must be connected to an appropriate Radius interface card or to Macintosh built-in video for you to use RadiusWare. See your Radius display user's manual for the complete procedures on how to install your Radius display system.

If you use more than one startup disk, RadiusWare must be installed onto each for you to use its features (except for disks with the A/UX operating system; see Appendix A).

If your Radius display is connected to a Macintosh built-in video port (rather than to a Radius interface card), the installer will install additional Radius software to enable RadiusWare features for your display. In addition, depending on the type of Radius display system you have, the installer program will install other Radius software in your System Folder as it installs RadiusWare.



Radius recommends the use of system software version 7.1 or greater. However, system software version 6.0.7 or greater will operate correctly.

Installing RadiusWare

To install RadiusWare,

1. Insert the RadiusWare installation diskette.
2. Double-click on the ReadMe file to review information about updates, installation, tips, and other enhancements that may have been added after this manual was written.



ReadMe



3. Choose Quit from the File menu to close the ReadMe file.
4. Double click on the Installer.

The Installer will update or install the software on any hard drive with a System Folder. If your startup hard drive is the only hard drive in your Macintosh system, the Installer will update that drive and prompt you to restart your Macintosh. If you install the software on a hard disk drive other than the startup drive, you will *not* be prompted to restart your Macintosh.

5. Once your startup drive has been selected, click the Install button. (If you are using System 7 or greater, the software files necessary will be installed automatically into the Extensions and System folders on the drive you selected. If you are using System 6.0.7, the software will be installed in the System Folder.)
6. Quit the Installer.
7. Remove and safely store the RadiusWare Installation diskette.
8. Restart your Macintosh.

Setting Up Monitors Control Panel

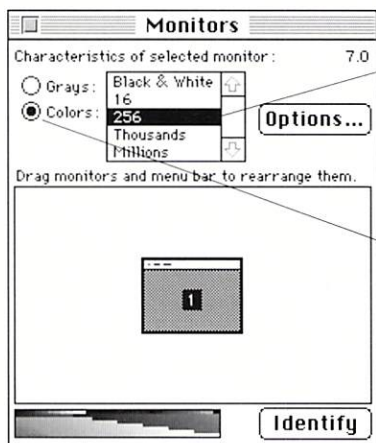
Before selecting the RadiusWare features you want to use, you must first define certain characteristics of the display connected to your Macintosh. Many of these characteristics can be set by using the Monitors control panel.

To define the characteristics of your display,

1. Choose Control Panels from the Apple () menu.
2. Double-click on the Monitors icon. The Monitors control panel will appear, as shown in the following diagram.



Monitors



Highlight the desired number of colors or grays

Select either Grays or Colors

Monitors control panel



Depending on the color capabilities of your Macintosh system, the Monitors control panel may differ slightly from the previous diagram.

Choosing Colors or Grays

For the best on-screen resolution, you'll need to define the color capabilities of the display connected to your Macintosh. If you have a monochrome display, choose Grays. If you have a color display, choose Colors. With a color display, it may be preferable to choose the Black & White setting for word processing or other text-based applications for increased speed.

Choosing the Number of Colors or Shades of Gray

Depending on the type of Radius display system you are using, the control panel may offer you several choices for selecting the number of colors or shades of gray. Refer to "Changing Bit Depth" in the *Radius Control Panel* — Page 2 section that appears later in this chapter.

For more information, refer to the *Macintosh Reference System 7* manual included with your computer.

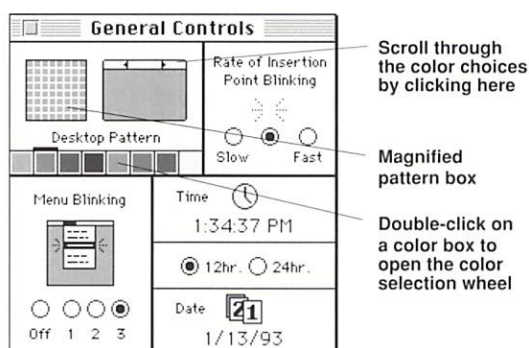


Selecting a Desktop Pattern for a Color Display

If you are using a color display, Radius recommends changing the standard desktop to a color pattern. This will prevent distracting circular patterns that may appear on some displays.

To select a preset desktop pattern for a color display,

1. Choose Control Panels from the Apple () menu. The Control Panels window will appear.
2. Double-click on the General Controls icon.



General Controls control panel

3. Scroll through the available pre-set patterns by clicking the menu bar of the miniature desktop pattern panel (right panel).

To define a custom pattern for your display,

1. Select the desired color from the color bar below the Desktop Pattern icons. Other color choices are available: double-click on any color box and a color wheel window will appear. You can manipulate your color options to select the desktop color that you want to use.
2. In the magnified pattern box, click on the pixels that you want to change. (Radius recommends a solid color pattern.)

3. Click on the miniature desktop-pattern panel (right panel) to activate your new pattern. The new desktop pattern will immediately appear and will be used when you close the control panel.

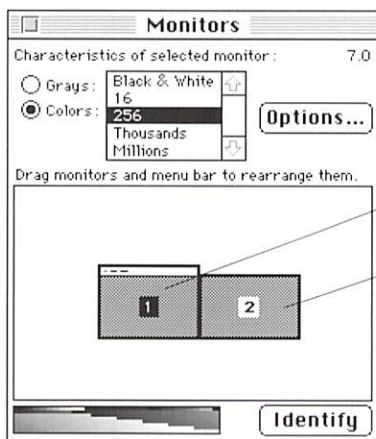
Refer to your Apple *Macintosh Reference, System 7* manual, included with your Macintosh, for more information about selecting desktop patterns.

Systems with Several Displays

If more than one display is connected to your Macintosh, each display will be represented by an icon in the lower portion of the Monitors control panel. The icons are shown in proportion to the dimensions of the display. The following sections will help you configure a Macintosh system with multiple displays.

To set the number of gray shades or colors for multiple displays,

1. Choose Control Panels from the Apple () menu.
2. Double-click on the Monitors control panel icon. The Monitors control panel will appear, as shown in the following diagram.



First display

Second display

Monitor control panel showing multiple displays

3. Click on the icon that represents the display you wish to configure, which will highlight the icon's border.
4. Choose Grays or Colors.
5. Choose the number of colors or shades of gray.

Repeat the above procedure for each display connected to your Macintosh system.



With a multiple display system, clicking on the Identify button (lower right corner) in the Monitors control panel will display a number on the actual screen corresponding to the numbered icon.

Setting Display Alignment

For a multiple display system, the Monitors control panel enables you to adjust the alignment of the monitor icons to match the physical position of your displays. You have to electronically arrange your display's icons to match the physical positions of the displays.

To adjust the monitors' icons,

1. Click on a monitor icon and hold the mouse button down. The icon will become highlighted.
2. Drag the icon until it represents the relative position of your actual (physical) display. Icons can be moved up or down, and left or right for alignment.
3. Repeat this process for each of the monitor icons, until the position of the icons matches the position of your actual displays as physically arranged in front of you.
4. Close the Monitors control panel.
5. Restart the Macintosh to activate the your alignment.

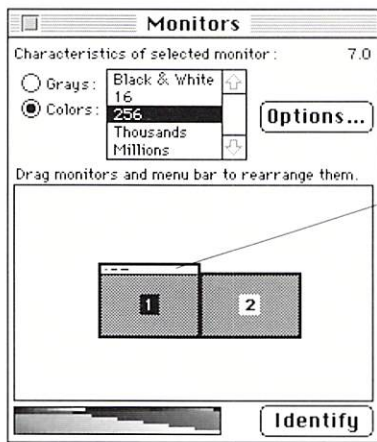
When the Macintosh restarts, drag the mouse cursor across all of the displays. The cursor should flow smoothly from the screen of one display to the screen of the next. If it doesn't, the displays are not properly aligned in the Monitors control panel. Return to the Monitors control panel and readjust the icons as described in the previous procedure.

Choosing a Main Display

You can use the Monitors control panel to choose the display that will be the main display for your system. The main display will have the menu bar and the Finder icons. When you first start your system after installing new video cards, the Main Display will automatically be Display 1 (as numbered in the Monitors control panel).

To select the display you wish to use as the main display,

1. Click and drag the miniature menu bar to the icon representing your desired main display.



Drag miniature menu bar to icon for the new Main Display

Monitors control panel used to designate main display

2. Close the Monitors control panel.
3. Restart your Macintosh.



Radius interface cards automatically detect connection to an external display. If a Radius display has been selected as the main display and is not connected to an interface card, the menu bar will automatically move to another, connected display when the Macintosh restarts. This feature allows you to disconnect the Radius display without having to remove the Radius interface card.

Chapter 2

General RadiusWare Features

RadiusWare features are designed to increase your productivity when working with a Radius display. You can set these features using the Radius control panel. All choices made remain in effect until you change them.

The RadiusWare control panel differs slightly among the various Radius products. The following features apply to all products, unless otherwise stated.

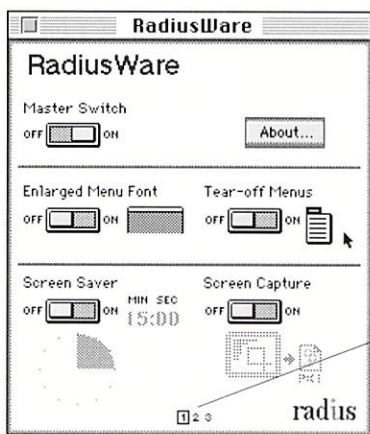
Selecting RadiusWare Features

To select and activate the features of RadiusWare, you must access the RadiusWare control panel. The RadiusWare control panel has three “pages” of features. The selection and use of these features are described in the following sections of this chapter.

To access the RadiusWare control panel,

1. Choose Control Panels from the Apple () menu.
2. Double-click on the RadiusWare icon. The first Page of the RadiusWare control panel will appear, as shown in the following diagram.





Page number.

Click on a different number to move among the pages

RadiusWare control panel, Page 1

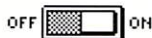


Important: Changes to some of the RadiusWare features do not take effect immediately, and will require you to restart your Macintosh. If this is the case, a note will appear in the Radius control panel alerting you to restart the Macintosh.

RadiusWare Control Panel — Page 1

The following section explains how to activate the features that appear on Page 1 of the RadiusWare control panel.

Master Switch



The Master Switch is used to turn on/off *all* of the RadiusWare features. When the Master Switch is turned off, all of the RadiusWare features will be deactivated when you restart the Macintosh.

To use the Master Switch to deactivate all RadiusWare features,

1. Click the Master Switch to the Off position.
2. Close the RadiusWare control panel.
3. Restart your Macintosh to implement this change.

Master Switch





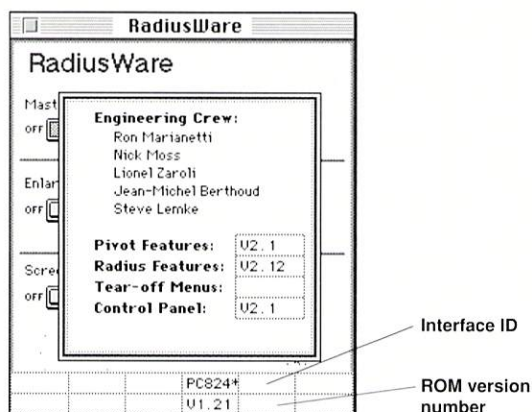
To return to your previous RadiusWare settings,

1. Click the Master Switch button to the On position.
2. Close the RadiusWare control panel.
3. Restart your Macintosh to implement this change.

About... Button

The About... button displays important information regarding your Radius display system. Click the About... button to display:

- An information box with version numbers of the software modules included in RadiusWare.
- The Radius ROM version number installed on your display interface (displays on lower portion of main RadiusWare control panel).



The Radius Information Box

This information is necessary if you need to contact Radius Technical Support with questions about your Radius display system. Click the mouse button to return to the RadiusWare control panel.

Enlarged Menu Font



RadiusWare provides the option of displaying an enlarged menu font that enhances readability on a larger screen. Menus are displayed in either a larger size (16-point type; switch On) or the regular Macintosh size (12-point type; switch Off). The default setting is Off.

Important: *The use of the Enlarged Menu Font feature is not recommended if you are using System 7.1 or greater.*

To choose menu font size,

1. Click the switch to turn Enlarged Menu Font on or off.
2. Restart the Macintosh to activate this change.

Tear-off Menus



Important: *Tear-off menus are only operational under system version 6.0.7. Tear-off menus are disabled under System 7.*

Ordinarily, you access a Macintosh pull-down menu by moving the cursor to the menu bar, holding down the mouse button, and dragging down the menu. A selection is made when you release the mouse button, at which point the menu is closed. RadiusWare allows you to “tear off” a menu and move it to another location, where it will remain open and active until you close it.

To activate tear-off menus,

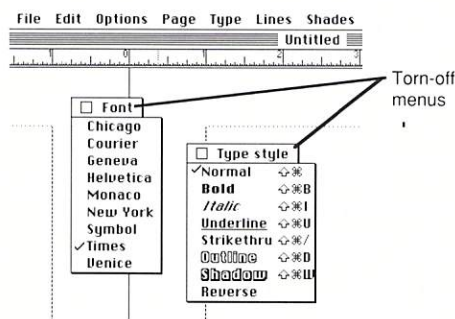
- Click the Tear-off Menus switch to the On position.

To tear a menu off,

1. Move the cursor to the menu bar, hold down the mouse button, and pull down the menu.
2. Continue holding down the mouse button, and move the cursor to the left or the right and outside the menu box. A dotted outline of the menu will follow the cursor as you drag away from the original menu. When the mouse button is released, the menu will be displayed in the position of the outline. Moving the cursor back to the original menu before releasing the mouse button will restore the menu to its original location. A menu that has been torn off will remain open until you close it.
3. You can now choose a command from a Tear-off Menu by moving the cursor to the command and clicking.

To reposition a Tear-off Menu after it has been opened,

- Move the cursor to the menu's title bar, hold down the mouse button, and drag the menu to a new location.



Menus torn off and positioned on desktop

The extensive screen area of a Radius display provides ample room to open and tear off several menus.

Because Tear-off Menus remain open and active, all the choices in a menu are available at a glance. This is useful for particularly long and commonly used menus like Fonts and Patterns. In addition, you can refer to an open Tear-off Menu to identify optional keyboard equivalents.

Both parent menus and sub-menus can be torn away from the menu bar. However, sub-menus cannot be accessed from a parent menu that has been detached from the menu bar. When the switch is on, you will be able to tear menus off from most applications and from the Finder.

If the Tear-off Menus switch is turned off while menus are open, they will all close instantly. When running MultiFinder, turning the switch off will close all menus in every open application.

To close a menu,

- Click the close box in the menu's title bar.

To close all open menus in an application simultaneously,

- Hold down the Option key and click in any menu's close box.



Important: *Although most dialog boxes will appear on the screen in front of Tear-off Menus, some will be hidden behind them (especially those that are not the standard double-bordered dialog boxes). If the OK or Cancel button in the dialog box is inaccessible, press the Return key or ⌘-Period to close the dialog box. Move or close the menu before opening the dialog box again.*

Some menus vary their width depending on the information displayed. (For example, sometimes a long file name is added after the Open command in the File menu.) This is normal. Some menus may change height as well, as items are added to or deleted from the menu.

Tear-off Menu Compatibility

If any incompatibility with Tear-off Menus is suspected, click the Tear-off Menus switch to the Off position. The Tear-off Menu option takes effect immediately. You do not need to restart your Macintosh.

When switching between applications, menus of the current application replace those of the former application. Menus of only one application will appear at a time. The Apple () menu must be torn off in each application. If you turn Tear-off Menus off from the Radius control panel, all Tear-off Menus in all open applications will be closed.

Tear-off Color Menus on a Color Display

When menus are in a customized color, Tear-off Menus will also be in color. However, if you move a menu from a color screen to a black-and-white (1-bit) screen, the colors may be converted by the Macintosh operating system in an undesirable way; e.g., the menu background color and the text color might both convert to black, making the text unreadable. To avoid this, try customizing color choices so that they look better on a black & white screen.

Screen Saver



The Screen Saver reduces the possibility of damaging the screen phosphor of your display when your Macintosh is left turned on and unattended for a time. When the Screen Saver is turned on, all displays connected to your Macintosh system will be dimmed with a starry-night motif after the time you specify on the clock. Processes in progress will not be affected when the screen darkens; printing, telecommunications, or program compilation will proceed uninterrupted.



Moving the mouse, clicking the mouse button, or hitting a key on the keyboard will restore the screen to its previous image. The Screen Saver default setting is 15 minutes.

Important: *If you are already using a different screen saver with your Macintosh system, turn off the RadiusWare Screen Saver feature.*

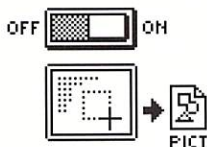
To configure the Screen Saver,

- Position the cursor on the clock face and drag the hand to the desired time. The shaded area will represent the length of time before dimming occurs, or...
- Change the time by clicking on the minutes (Min) digits or seconds (Sec) digits and entering the desired time from the keyboard, or...
- Select the minutes or seconds digits, and change the time with the two arrows that appear to the right of the digital time. Click on these arrows until you get to the desired time.

To deactivate the Screen Saver,

- Click the Screen Saver switch to the OFF position. The clock icon and numbers will be dimmed to show that the Screen Saver is deactivated.

Screen Capture



When Screen Capture is turned on, you can capture any rectangular portion of your Macintosh desktop image as a PICT2 file. When working with a Radius display, you can use Screen Capture to capture and save images in the current bit-depth level (color or grayscale) of the display system. (The bit-depth level can be selected in the Monitors control panel, or with the Radius Bit Depth Changer.)





To activate the Screen Capture,

- Click the Screen Capture switch to the On position.

To create a screen capture,

1. Press ⌘-Shift-3. A rotating cross-hair cursor will appear.
2. Position the cursor at one corner of the rectangular area that you wish to capture.
3. Hold down the mouse button, drag the cursor to the opposite corner, and release the mouse button. A rectangular frame follows the cursor while you drag.
4. Double-click the mouse button within the selected area to capture the desired image.

To cancel a screen capture after selection, press ⌘-Period.

A “Save As...” dialog box will appear, which will allow you to name each screen capture file and save it to the desired location on your disk. The screen image will be saved as a PICT2 file. Captured images can be opened by any software application that can read the PICT2 file format.

If you hear a beep after double-clicking, the screen capture was not successful. The area captured may be too large for the available memory or disk space in your system.



The area you select should not span multiple displays.

To deactivate Screen Capture,

- Click the switch to Off. Typing ⌘-Shift-3 will now give you a standard PICT2 screen capture, as provided by the Macintosh System Software.



RadiusWare Control Panel — Page 2

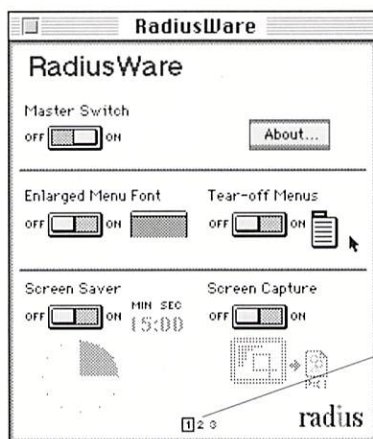
The following section explains how to activate the general features that appear on Page 2 of the RadiusWare control panel.

Accessing Page 2 of RadiusWare

Due to the number of features and controls that are available with RadiusWare, additional controls appear on Page 2 and Page 3 of the RadiusWare control panel.

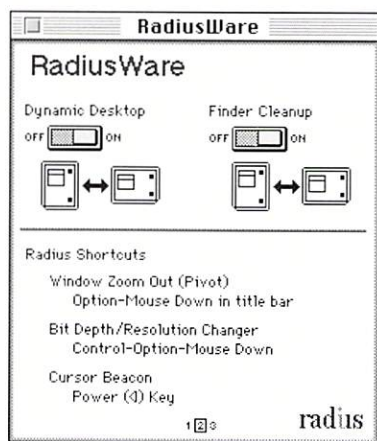
To access Page 2 of the RadiusWare control panel,

1. Choose Control Panels from the Apple (🍏) menu.
2. Double-click on the RadiusWare icon. The first Page of the RadiusWare control panel will appear, as shown in the following diagram.



RadiusWare control panel, Page 1

3. Click on the number "2" that appears at the bottom of the RadiusWare control panel. Page 2 of the RadiusWare control panel will appear, as shown in the following diagram.



RadiusWare control panel, Page 2

Dynamic Desktop and Finder Clean Up

The top of Page 2 of the RadiusWare control panel includes control switches for Dynamic Desktop and Finder Cleanup. These features do not apply to all Radius products, and are therefore discussed in Chapter 3: *Dynamic Desktop Features*.

Radius Shortcuts

The bottom half of Page 2 lists keyboard shortcuts for easy reference. These shortcuts make it faster and easier to work with your Macintosh.

Window Zoom Out

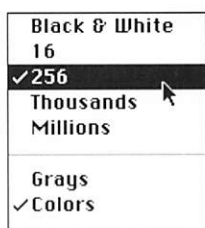
The Window Zoom Out shortcut is relevant only to Pivot and PrecisionColor displays, and is therefore discussed in Chapter 3: *Dynamic Desktop Features*.

Changing Bit Depth

The Radius Bit Depth Changer makes it easy to change the number of colors and/or shades of gray displayed on your monitor *without* having to access the Monitors control panel.

To activate the Radius Bit Depth Changer,

1. Hold down the Option and Control keys while pressing the mouse button. A small "pop-up" menu appears at the location of the mouse cursor.
2. Hold down the mouse button, and drag to select the number of colors or gray shades that you want to use. The number of choices that appear will depend on your interface card (or video memory, for Macintosh built-in video).



Bit Depth Changer pop-up menu

3. Release the mouse button when you have made your selection.

The change will take effect immediately; you do not have to restart your Macintosh. The Bit Depth Changer also lets you choose either grays or colors. Any changes you make with the Bit Depth Changer take effect immediately, and remain in effect until you change them again.



If you have a Radius PrecisionColor interface or display, the Bit Depth Changer pop-up menu will also include a list of screen size resolutions that you can select for your display. Refer to Chapter 3: *Dynamic Desktop Features* for more information.

If you hear a beep after making a change with the Bit Depth Changer, open and then close the Monitors control panel to update the system information regarding your display configuration.



Locating the Cursor (Cursor Beacon)

When working with a large display (or multiple displays), it is possible to lose sight of the mouse cursor. Pressing the Power On key at the top of the standard keyboard will briefly flash a circle around the cursor to help you locate it. If you are using the extended keyboard, the Power On key is located in the upper right-hand corner.

RadiusWare Control Panel — Page 3

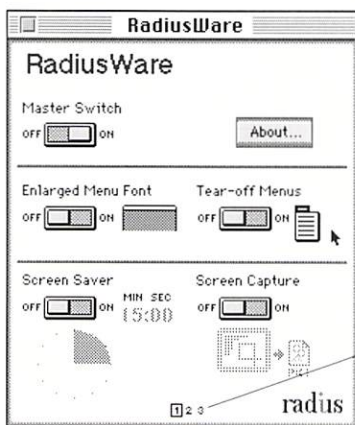
The following section explains how to activate the general features that appear on Page 3 of the RadiusWare control panel.

Accessing Page 3 of RadiusWare

Due to the number of features and controls that are available with RadiusWare, additional controls appear on Page 2 and Page 3 of the RadiusWare control panel.

To access Page 3 of the RadiusWare control panel,

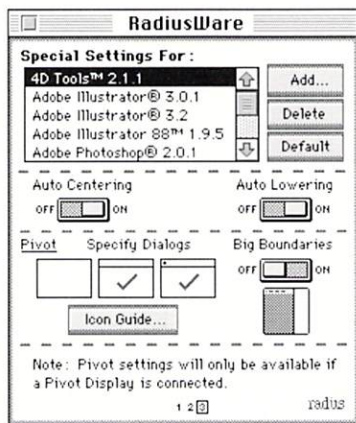
1. Choose Control Panels from the Apple (Apple logo) menu.
2. Double-click on the RadiusWare icon. The first Page of the RadiusWare control panel will appear, as shown in the following diagram.



Click on the "3"

RadiusWare control panel, Page 1

- Click on the number "3" that appears at the bottom of the RadiusWare control panel. Page 3 of the RadiusWare control panel will appear, as shown in the following diagram.



RadiusWare control panel, Page 3

Auto-Centering

Auto Centering
OFF ☒ ON

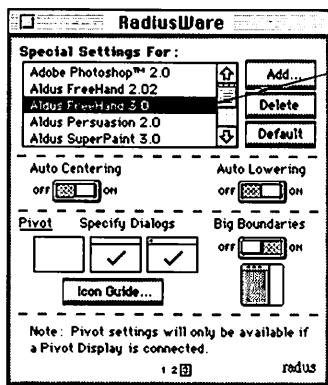
When Auto-Centering is on, RadiusWare will automatically center dialog boxes on the screen to compensate for the extra space of the larger display. If you have more than one display in your system, this feature will cause dialog boxes to appear on the screen where the cursor is located, making them easier to access.



Important: If you want to use Auto-Centering, it must be activated for each application that you use with your Macintosh.

To turn Auto-Centering on or off for an application,

- A list of popular Macintosh applications appears at the top of Page 3 of the RadiusWare control panel. Scroll to locate the application that you want to use with Auto-Centering.



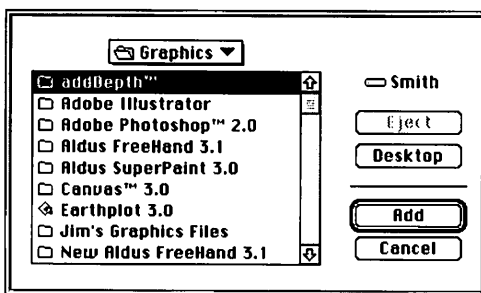
Scroll and click to select application

Selecting an application

2. Select the application by clicking on it in the Radius control panel. If the application you want to use is not listed, add it to the list as described in the next procedure.
3. Click the Auto-Centering switch on or off, as desired.
4. Repeat the previous steps for each application that you want to use with Auto-Centering.

To add an application to the scrolling list,

1. Click on the Add button in Page 3 of the RadiusWare control panel. The Add Application dialog box will appear, as shown in the following diagram.



The Add Application dialog box

Auto Centering
OFF ☐ ON

Add...

Add

2. Locate the application that you want to add to the list for Auto-Centering, and click to select it (so the name is highlighted in black).
3. Click on the Add button.
4. At this point, you will be returned to Page 3 of the RadiusWare control panel. Click on the Auto-Centering switch to turn the feature on or off.

Auto-Lowering

OFF  ON

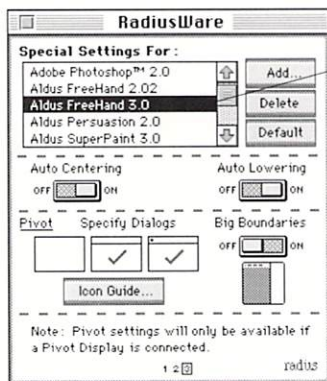
When the Enlarged Menu Font feature is in effect, some applications may place the title bars of their windows slightly behind the menu bar. Auto-Lowering forces windows and dialog boxes to always appear *below* the menu bar.



Important: If you want to use Auto-Lowering, it must be activated for each application that you use with your Macintosh.

To turn Auto-Lowering on or off for an application,

1. A list of popular Macintosh applications appears at the top of Page 3 of the RadiusWare control panel. Scroll to locate the application that you want to use with Auto-Lowering.



Scroll and click to select application

Selecting an application



2. Select the application by clicking on it in the Radius control panel. If the application you want to use is not listed, add it to the list as described in the previous section.
3. Click the Auto-Lowering switch on or off, as desired.
4. Repeat the previous steps for each application that you want to use with Auto-Lowering.

Chapter 3

Dynamic Desktop Features

This chapter describes the Dynamic Desktop features that are available with RadiusWare. The Dynamic Desktop activates a variety of features for Radius Pivot and PrecisionColor products.

- For the Radius Pivot family of display products, the Dynamic Desktop enables you to rotate the Pivot between the “portrait” (vertical) orientation, and the “landscape” (horizontal) orientation without having to restart your Macintosh. With the Dynamic Desktop, the screen image will be changed automatically when you rotate the Pivot. This allows you to work in the orientation best suited for each application.
- For the Radius PrecisionColor family of display products, the Dynamic Desktop enables you to change the current “resolution” (dpi, or dots-per-inch) of the display. For example, the Dynamic Desktop enables you to change from an “actual size” screen image to an enlarged (or reduced) view of the Macintosh desktop.

Unlike other products that offer simple close-up “zooming” features, the Dynamic Desktop changes the entire Macintosh environment to reflect the various screen resolutions. This enables you to easily access all of the Macintosh icons and pull-down menus as you work.

- For the Radius PrecisionColor family of interface cards, the Dynamic Desktop enables you to use Radius (or other brands) of multi-frequency displays to change from an “actual size” screen image to an enlarged (or reduced) view of the Macintosh desktop.

With the Dynamic Desktop, all of the features and capabilities described above can be changed “on the fly,” which means



that you don't have to restart your Macintosh for the changes to take effect.

Important: If you have a Radius Pivot connected to a Macintosh built-in video port, Soft Pivot must also be installed in the System Folder of your startup drive. Chapter 4 explains Soft Pivot in detail.

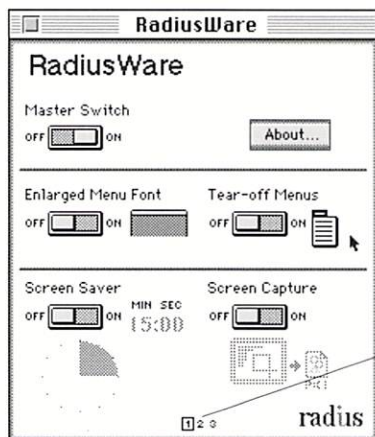
Activating the Dynamic Desktop

The Dynamic Desktop features of RadiusWare are activated by the various controls and options that appear on Page 2 and Page 3 of the RadiusWare control panel.

Page 2 of the RadiusWare control panel includes the controls that are used to activate the Dynamic Desktop and Finder Cleanup features of RadiusWare.

To access Page 2 of the RadiusWare control panel,

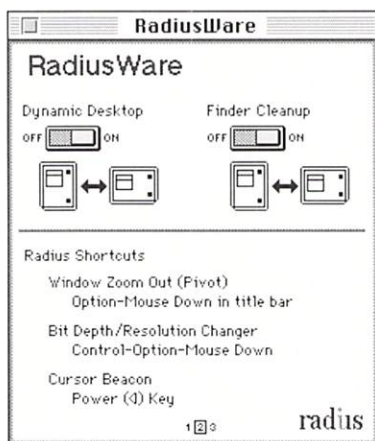
1. Choose Control Panels from the Apple () menu.
2. Double-click on the RadiusWare icon. The first Page of the RadiusWare control panel will appear, as shown in the following diagram.



Click on the "2"

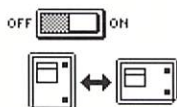
RadiusWare control panel, Page 1

3. Click on the number “2” that appears at the bottom of the RadiusWare control panel. Page 2 of the RadiusWare control panel will appear, as shown in the following diagram.



RadiusWare control panel, Page 2

Dynamic Desktop

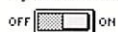


RadiusWare's Dynamic Desktop enables you to change the orientation of your Pivot display in real time, re-drawing your desktop to fill the image area of the new orientation.

If you are using a PrecisionColor, or other multi-frequency display, the Dynamic Desktop enables you to change the display resolution without having to restart your Macintosh.

When you rotate a Radius Pivot display, or change resolution with other types of displays, the image on the screen will first fade out to black. Then, the image will fade back in, with your desktop re-configured in its new orientation and/or resolution.

Dynamic Desktop



The “ON” position is the default setting for the Dynamic Desktop.

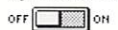
If you are working with a Radius Pivot display, you may want to disable the Dynamic Desktop. When the Dynamic Desktop is disabled (“OFF”), a change in the display’s orientation and/or resolution will result in no change to the image displayed on the screen.

To disable Dynamic Desktop,

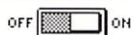
- Click the Dynamic Desktop switch to the “OFF” position.

This change takes effect immediately. When the Dynamic Desktop switch is set to Off, you will have to restart your Macintosh to change the screen orientation of your Radius Pivot display, or the screen resolution of your PrecisionColor (or other multi-frequency) display.

Dynamic Desktop



Finder Cleanup



The Finder Cleanup feature of RadiusWare reorganizes windows and icons that appear in the Finder and/or any other application that is currently running on your Macintosh.

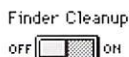
For example, if you are using a Radius Pivot display and rotate it to a new position, the Finder Cleanup feature will relocate the icons on your desktop to the right side of your screen.

Likewise, if you are using a Radius PrecisionColor display (or other multi-frequency display), the Finder Cleanup feature will relocate the icons if you change the resolution for the display.

The “ON” position is the default setting for Finder Cleanup.

Finder Cleanup





You can disable Finder Cleanup so that your desktop icons are *not* relocated each time you flip a Radius Pivot display, or change the resolution of a Radius PrecisionColor display.

To disable Finder Cleanup,

- Click the Finder Cleanup switch to the “OFF” position.

This change takes effect immediately. If the Finder Cleanup switch is set to the “OFF” position when you change resolutions or re-orient your Pivot display, you may lose sight of desktop icons that were in either the lower portion of the screen or the right-hand side of the screen. To find them again, flip the Pivot display back to your original orientation, or, change the resolution of your PrecisionColor display to larger dimensions.

Adjusting Display Resolutions

The ability to adjust the display resolution is an important feature of the Radius Dynamic Desktop. If you are using a multi-frequency display (such as a Radius PrecisionColor/20 Display or Color Pivot Display), the Dynamic Desktop enables you to change the display resolution without having to restart your Macintosh.

There are two ways to adjust the resolution that is used by your display:

- Use the convenient Radius pop-up Bit Depth/Resolution Changer. This enables you to change the display resolution at any time, from within any application by activating a simple pop-up menu.
- Open the Monitors control panel, and access the Monitors Options dialog box. This also enables you to manually define the type of display connected to your Macintosh.

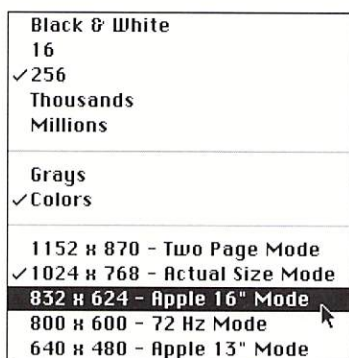
These two methods are described in detail in the following section.

Using the Pop-Up Bit Depth/Resolution Changer

The Radius pop-up Bit Depth/Resolution Changer enables you to change the display resolution at any time, from within any application by activating a simple pop-up menu. In addition to changing the display resolution, you can also use the Radius pop-up Bit Depth/Resolution Changer to change the number of colors and/or grays that appear on your display.

To activate the Radius Bit Depth Changer,

1. Hold down the Option and Control keys while pressing the mouse button. A "pop-up" menu appears at the mouse cursor
2. Continue to hold down the mouse button, and drag to select the display resolution that you want to use. The number of choices that appear will depend on your particular Macintosh system configuration.



Bit Depth Changer pop-up menu

3. Release the mouse button when you have made your selection.

When you change the display resolution, the screen will fade to black, and then reappear with the new resolution. You do not have to restart your Macintosh.



If you have activated the Finder Cleanup feature of the Dynamic Desktop (described earlier in this chapter), icons that appear in the Finder desktop will automatically be rearranged to suit the new resolution.

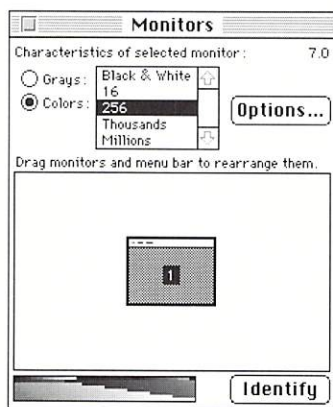
The resolution you choose affects only how information is displayed on the screen, and has no influence on how your documents will appear when printed.

Using the RadiusWare Monitors Options

The other method for changing the display resolution is to access the RadiusWare Monitors Options. This also enables you to manually define the type of display connected to your Macintosh.

To access the Monitors Options,

1. Choose Control Panels from the Apple () menu.
2. Double-click on the Monitors control panel icon. The Monitors control panel will appear.



The Monitors control panel



If you have more than one display, click on the icon in the Monitors control panel that corresponds to the display you want to modify.

Options...

- Click on the Options button. The Monitors Options dialog box will appear.



The Monitors Options dialog box

- Toward the top of the Monitors Options dialog box is a scrollable list showing various types of displays. Make sure that the type of display connected to your Macintosh is highlighted in black.



Important: If you need to change this setting, the change will be implemented *after* you restart your Macintosh.

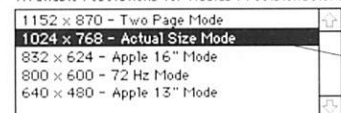
Select monitor type:



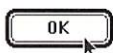
Scroll, and click to select monitor type

- In the middle of the Monitors Options dialog box is a scrollable list showing the resolutions that are available for your particular display. Click to select the display resolution that you want to use.

Available resolutions for Radius PrecisionColor/20:



Click to select a display resolution



6. Click on the OK button to close the Monitors Options dialog box.

7. Close the Monitors control panel.

When you close the Monitors control panel, the screen will fade to black, and then reappear with the new resolution. You do not have to restart your Macintosh.

If you have activated the Finder Cleanup feature of the Dynamic Desktop (described earlier in this chapter), icons that appear in the Finder desktop will automatically be rearranged to suit the new resolution.



If you have deactivated RadiusWare by turning its Master Switch to the OFF position, or have disabled the Dynamic Desktop feature of RadiusWare, you will have to restart the Macintosh to apply the new display resolution.



Important: *If you are using a Radius Pivot display, rotating the display will not affect the location or size of the windows on your desktop. You may wish to resize or reposition windows before you flip the display so that you retain access to the scroll bars and the size and zoom boxes.*

Working with Applications

The Radius Dynamic Desktop affords a great deal of flexibility for defining display resolutions for Radius PrecisionColor displays. If you are using a Radius Pivot display, the Dynamic Desktop also controls how the screen appears after you rotate the display.

Due to the complexity of modern Macintosh applications, the Dynamic Desktop feature of RadiusWare includes a number of features designed to ensure complete compatibility with current and future Macintosh applications.

This section explains the Dynamic Desktop features that are *application specific*. In other words, the features that can be defined on an application-by-application basis.



Properly setting the features described in this section will ensure compatibility when you change the screen resolution of your PrecisionColor display, or change the orientation of your Radius Pivot.

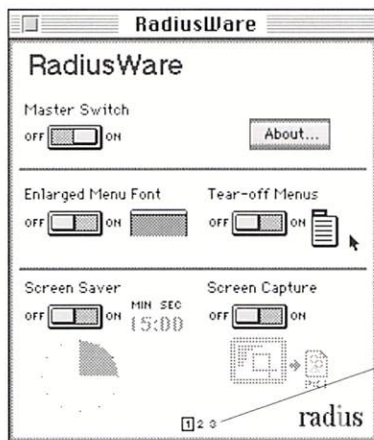
All of the features described in the following sections require that the Dynamic Desktop feature of RadiusWare is activated. If you have not activated the Dynamic Desktop feature, refer to Chapter 2: *General RadiusWare Features*.

Accessing Page 3 of RadiusWare

All of the application-specific features of RadiusWare appear in Page 3 of the RadiusWare control panel.

To access Page 3 of the RadiusWare control panel,

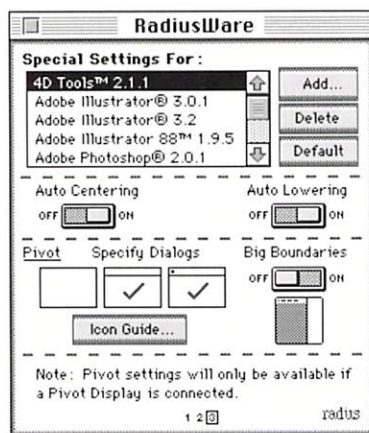
1. Choose Control Panels from the Apple (Apple) menu.
2. Double-click on the RadiusWare icon. The first Page of the RadiusWare control panel will appear, as shown in the following diagram.



Click on the "3"

RadiusWare control panel, Page 1

3. Click on the number “3” that appears at the bottom of the RadiusWare control panel. Page 3 of the RadiusWare control panel will appear, as shown in the following diagram.



RadiusWare control panel, Page 3

The following sections explain how to use the application-specific settings that appear in Page 3 of the RadiusWare control panel.

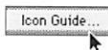
Specifying Alternative Dialog Boxes



Specify Dialogs panel

This section is only for advanced users.

Under normal circumstances, you do not need to specify how alternative dialog boxes appear when using the Dynamic Desktop: Radius has preset these for all popular Macintosh applications.



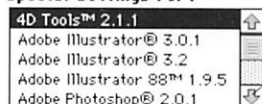
RadiusWare prohibits changing Pivot orientation or PrecisionColor display resolutions when any standard (double-bordered) dialog box is on the screen. Because applications sometimes use different (non-standard) dialog boxes, you have the ability to prohibit RadiusWare from changing the display when one of these non-standard dialog boxes appears.

Icons for the three types of alternative dialog boxes are shown in the control panel. Click the Icon Guide button to display a description of each one.

To specify alternative dialog boxes for a specific application,

1. First, check the Special Settings list of the Radius control panel to determine if your application is already listed.

Special Settings For :



Scroll to see if your application is listed

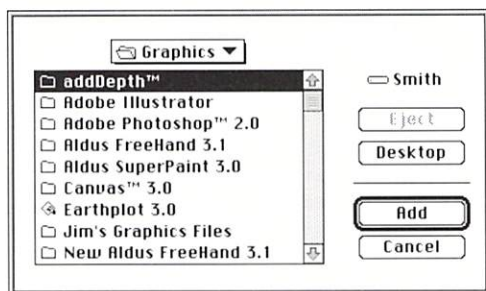
If your application is listed, the settings are already correct for your application. Skip ahead of this procedure.

2. If your application does not appear in the Special Settings list, determine what kinds of alternative dialog boxes, if any, are used by the application.

The best way to do this is to close the RadiusWare control panel, run your application for a while, and call up various menu items. Make a note of the various types of dialog boxes that appear, and compare them against the types of alternative dialog boxes that appear in the Icon Guide.

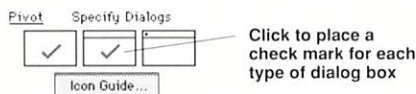


3. Click on the Add button in Page 3 of the RadiusWare control panel. The Add Application dialog box will appear, as shown in the following diagram.



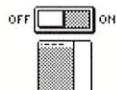
The Add Application dialog box

4. Locate the application that you want to add to the list, and click to select it (so the name is highlighted in black).
5. Click on the Add button.
6. Click each icon that applies to your application to prohibit an orientation and/or resolution change when that dialog box type is active.



A check mark designates that the icon is selected, and will be used for the alternative dialog box.

Specifying Big Boundaries

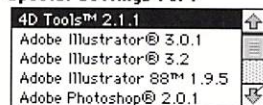


Certain applications do not follow all Macintosh QuickDraw™ conventions when drawing text and graphics on the screen. If you rotate a Pivot display, or change display resolution when this type of application is running on your Macintosh, the "new" region on your screen may not appear correctly. RadiusWare can correct this by allowing you to designate Big Boundaries for the offending applications.

To enable Big Boundaries for a specific application,

1. First, check the Special Settings list of the Radius control panel to determine if your application is already listed.

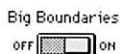
Special Settings For :



Scroll to see if your application is listed

If your application is listed, the settings are already correct for your application. Skip ahead to the end of this procedure.

2. Add the desired application to the Special Settings list, as described in the previous procedure.
3. Click the Big Boundaries switch to the On position.



When Big Boundaries is on, the application will correctly redraw the screen after a change in Pivot orientation or a change in display resolution.

Zooming Windows with the Dynamic Desktop

Depending on the size of your window, you may lose access to its borders when you change display resolution or rotate a Pivot display.

RadiusWare provides a shortcut to easily zoom your window to the new orientation of your Radius Pivot display. This shortcut also works if you change the resolution of other types of Radius PrecisionColor displays (or multi-frequency displays from another manufacturer).

This is particularly useful with the Radius Pivot display: for example, if you launched an application in landscape orientation and then flipped to the portrait orientation, thereby losing immediate access to the window's zoom and size boxes.



To quickly zoom your window,

- Hold down the Option key and click on the active window's title bar.

Applications that have not implemented (or, have overridden) the standard Window Zoom feature may not recognize this command.

Chapter 4

Soft Pivot for Built-in Video

This chapter describes Soft Pivot: software files that you need to use if your Radius Pivot, Color Pivot, or PrecisionColor Pivot is connected to a Macintosh built-in video port.

Soft Pivot transforms a Macintosh built-in video port into a software-controlled Radius interface card, allowing Radius Pivot displays to operate in both portrait and landscape orientations. When used with Radius Pivot displays, Soft Pivot also activates the RadiusWare features described in the previous chapters of this manual.

Files Required for Soft Pivot

Two software files are required to activate and use Soft Pivot:

- **Soft Pivot Driver.** This is a system file, and has no controls or other features.

If you are using System 7.0 (or later), it must be installed in the Extensions folder within your System Folder. If you are using System 6.0.7, it must be installed in the System Folder of your startup drive.

- **Soft Pivot.** This is a control panel file, and contains the controls that are used to define the operation of RadiusWare Soft Pivot.

If you are using System 7.0 (or later), it must be installed in the Control Panels folder within your System Folder. If you are using System 6.0.7, it must be installed in the System Folder of your startup drive.

Both of these files are automatically installed in their correct locations by the RadiusWare Installer. You only need to be aware of their locations if you make subsequent changes to your Macintosh system.





Important: If you are *not* using a Radius Pivot display connected to Macintosh built-in video, **these files should not be installed.** In this case, the Soft Pivot Driver and Soft Pivot files could cause a conflict with other RadiusWare files.

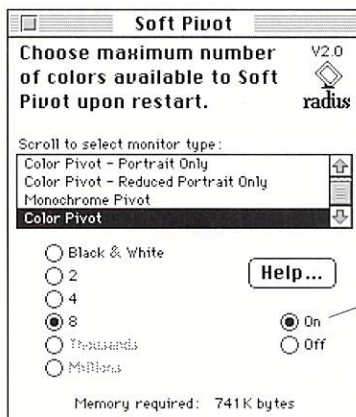
Soft Pivot Control Panel

The Soft Pivot control panel lets you define two settings that are important for the use of Soft Pivot:

- **Monitor Type.** This setting is used to define the type of Radius Pivot display connected to the built-in video port of your Macintosh.
- **Number of colors/grays.** This setting defines the maximum number of colors/grays that can be displayed.

To access the Soft Pivot control panel,

1. Choose Control Panels from the Apple () menu.
2. Double-click on the Soft Pivot icon. The Soft Pivot control panel will appear, as shown in the following diagram.



Soft Pivot "On"

The Soft Pivot control panel

3. Make sure that the Soft Pivot is turned on.



If Soft Pivot is not turned on, click the On button, and restart your Macintosh. Repeat the previous procedure to display the Soft Pivot control panel.

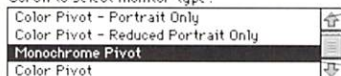
Defining the Monitor Type

To use Soft Pivot with the Radius Pivot display connected to your Macintosh, you must first define the type of Pivot display (monitor) connected to your system.

To set the monitor type in the Soft Pivot control panel,

1. Choose Control Panels from the Apple () menu.
2. Double-click on the Soft Pivot icon. The Soft Pivot control panel will appear.
3. A list of Radius displays appears in the top part of the Soft Pivot control panel. Scroll to the type of display connected to the built-in video port of your Macintosh.

Scroll to select monitor type:



Scroll to show your type of display

Click to select the display

4. Click on the type of display you are using, so that it is highlighted.
5. Close the Soft Pivot control panel.
6. Restart your Macintosh.

Reduced Settings for Color Pivot

If you have a Radius Color Pivot display connected to the built-in video port of your Macintosh, a special "Reduced" setting is available in the list of monitor types.

The Reduced setting is provided to increase the number of colors/grays that are available with the Radius Color Pivot display. When you select one of the Reduced settings, the area of the Macintosh desktop will be reduced slightly so that more colors/grays can be displayed. This has the effect of reducing the image area that is displayed on screen of the Pivot.

If you are using your Macintosh in a configuration where system memory is limited (e.g., you need to display lots of colors/grays and run memory-intensive applications), you should choose one of the Reduced settings to increase the available system memory. The importance of maximizing system memory is explained in the following sections of this chapter.

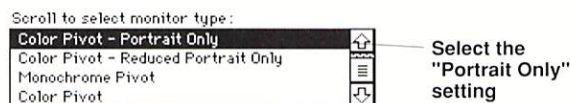
Memory Allocated for Pivot Rotation

Soft Pivot requires a portion of Macintosh system memory to re-orient the screen image when the Pivot is rotated. If you are using your Macintosh in a configuration where system memory is limited, you can set the Pivot to operate in its "native" orientation so that this memory remains available for your applications.

The following list shows the native orientation settings for Radius Pivot products:

- **Monochrome Pivot - Portrait Only.** This is the native orientation setting for the Radius monochrome (black and white) Pivot display.
- **Color Pivot - Portrait Only.** This is the native orientation for the Radius Color Pivot display.
- **PrecisionColor Pivot - Landscape Only.** This is the native orientation for the Radius PrecisionColor Pivot display.

For example, if you are using a Color Pivot, you would select "Color Pivot - Portrait Only" from the scrolling list in the Soft Pivot control panel, as shown in the following diagram.



Important: If you select one of the native orientation settings, you will have to return to the Soft Pivot control panel and choose a different setting if you want to change the orientation of the Pivot. You must then restart your Macintosh.

Setting Bit Depth with Soft Pivot

The lower portion of the Soft Pivot control panel includes a series of buttons that enable you to set the *maximum* number of colors/grays that can be displayed.

This feature is used to “reserve” the system memory of your Macintosh for the exclusive use of the display connected to the built-in video port of your Macintosh.

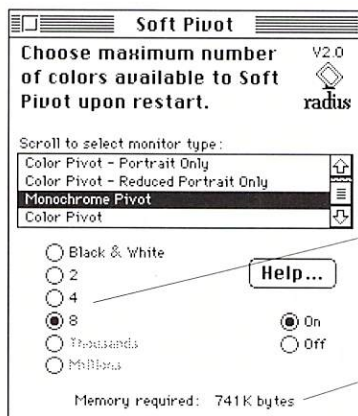
Setting Bit Depth with Built-In Video

Soft Pivot may be initially set to display only Black & White images, which reserves the *least* amount of system memory.

The following procedure describes how to set the *maximum* bit-depth that you can use with your Macintosh. In other words, how to set the controls so that you can access the maximum number of colors/grays that you want to use.

To set the maximum bit-depth for Soft Pivot,

1. Choose Control Panels from the Apple () menu.
2. Double-click on the Soft Pivot icon. The Soft Pivot control panel will appear, as shown in the following diagram.



Select a Bit-Depth for maximum colors/grays

System Memory required for selection

The Soft Pivot control panel

3. Click to select the maximum bit-depth that you want to reserve for built-in video.

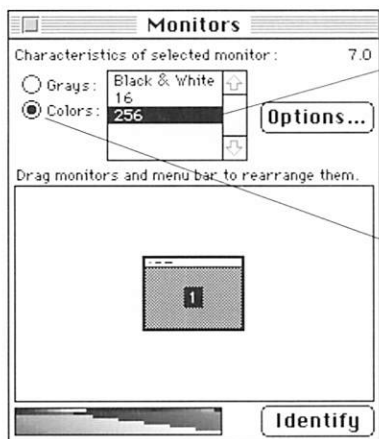
Note that the bottom of the Soft Pivot control panel displays the amount of Macintosh system memory that will be reserved for your selection.

4. Close the Soft Pivot control panel.
5. Restart your Macintosh.

Once you have defined the maximum bit-depth in the Soft Pivot control panel, it will be used every time you restart your Macintosh. If you want to change the setting, repeat the previous procedure and select a different maximum bit-depth.

To select the number of colors/grays that are displayed when Soft Pivot is activated,

1. Choose Control Panels from the Apple () menu.
2. Double-click on the Monitors icon. The Monitors control panel will appear, as shown in the following diagram.



Highlight the
desired number
of colors or grays

Select either
Grays or Colors

Monitors control panel

3. Based upon the settings you made in the Soft Pivot control panel, the maximum number of colors/grays that are reserved for system memory will be available in the Monitors control panel.

Click to select the settings that you want to use for your Radius Pivot display.

Memory Considerations for Built-in Video

There are two types of memory that is used for Macintosh built-in video. Therefore, the type of memory that is activated and used by Soft Pivot depends on the type of Macintosh that you are using with your system:

- **System Memory.** This type of memory is used only by the Macintosh IIci and Macintosh IIsx computers. In this case, a part of the total Macintosh system RAM memory is reserved by Soft Pivot.
- **VRAM (Video-RAM) Memory.** This type of memory is used by all other types of Macintosh computers that feature built-in video. Depending on your particular type of Macintosh computer, you may be able to purchase expanded VRAM module(s) to increase the amount of memory that is available.

Video Memory for Macintosh IIci, IIsx

For the Macintosh IIci and IIsx computers, the ability to display colors or shades of gray depends on the total RAM memory in your Macintosh system, and the amount of memory consumed by your System files.

For example, when you use the Soft Pivot control panel to define the number of colors/grays that are designated for the display, an associated portion of system memory will be assigned exclusively for your display. After you have made this setting, you must restart your Macintosh.



When your Macintosh restarts, that additional portion of system memory (that you assigned by selecting a level of grays or colors) is consumed by the System files located in the System Folder of your startup drive.

When the Finder appears on your screen, a new *remainder* of Macintosh system memory is available for use with your Macintosh applications (word processing, spreadsheets, etc.).

Important: *Because Soft Pivot uses the system memory installed in your Macintosh, you should be careful when choosing the number of colors/grays that can appear on your display. The greater the number of colors/grays, the less the amount of system memory that remains for running applications.*

Video Memory for Other Macintosh Computers

For all types of Macintosh computers with built-in video *except* the Macintosh IIci and IIsi computers, the ability to display colors or shades of gray depends on the total VRAM (Video-RAM) memory in your Macintosh system. VRAM memory is completely separate from the system memory used by your Macintosh.

In addition, the maximum bit-depth settings of the Soft Pivot control panel will be unavailable. The reason for this is simple: the number of colors/grays that can be used with your Radius Pivot display are dependent upon the amount of VRAM installed in your Macintosh.

Chapter 5

QuickDraw Acceleration

This chapter explains how to control the QuickDraw acceleration feature that can be used with accelerated Radius interface cards.

By using the Radius QuickColor™ control panel, you can turn on the QuickDraw acceleration that is built into your Radius interface card.

QuickDraw acceleration feature dramatically improves the screen performance when your display is set to 8-bit (256), 16-bit (Thousands), or 24-bit (Millions) color depth. When the QuickDraw acceleration feature is activated, you will note dramatic improvement in performance when scrolling through word-processor and page-layout documents, or when working with color-graphics applications.

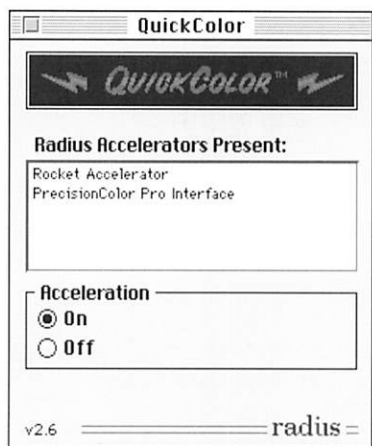
Activating Acceleration

The QuickDraw acceleration feature is activated from the QuickColor Control Panel.

To activate QuickDraw acceleration:

1. Choose Control Panels from the Apple (🍏) menu. The Control Panels window will appear.
2. Double-click on the QuickColor icon. The QuickColor Control Panel will appear, as shown in the following diagram.





The QuickColor Control Panel

QuickColor will identify the acceleration cards that you have installed in your Macintosh. In the example above, a Radius Rocket Accelerator and a Radius PrecisionColor Pro accelerated, graphics-interface card have been found and are shown in the Radius Accelerators Present area of the QuickColor Control Panel.

Two radio buttons appear at the bottom of the QuickColor Control Panel. These buttons control whether QuickDraw acceleration will always be on, or always be off. When acceleration is turned on, QuickDraw acceleration is applied to the cards listed in the Radius Accelerators Present window.

A third radio button is accessible by pressing the Option and Command keys simultaneously when the control panel is open. The use of this third button, called "When CapsLock Is Up" (on the keyboard), is described in the following section.

The default setting for QuickDraw acceleration is On.

3. Click on the button for the setting that you want.
4. Close the QuickColor Control Panel to lock-in the setting.



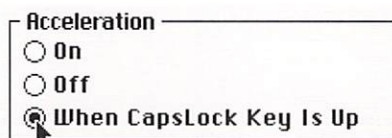
Some Macintosh applications may be sensitive to the performance improvement afforded by QuickDraw acceleration (games in particular). If you suspect a problem, experiment by temporarily deactivating QuickDraw acceleration and re-starting the application.

Using the Caps Lock Key Feature

The Caps Lock Key feature makes it easy for you to compare the performance improvement of the QuickDraw acceleration. It gives you a quick and convenient switch.

To use the Caps Lock Key feature,

1. Choose Control Panels from the Apple (🍏) menu. The Control Panels window will appear.
2. Double-click on the QuickColor icon. The QuickColor Control Panel will appear.
3. Press the Option and Command keys simultaneously. A third radio button will appear as shown in the following diagram.



4. Click on the radio button "When Caps Lock Key Is Up."
5. Close the QuickColor Control Panel to lock-in the setting.



If you open the QuickColor Control Panel again, you will not see the third button until you again press the Option and Command keys simultaneously.

6. Launch an application that will demonstrate the performance improvement of QuickDraw acceleration. A long document in a word-processing application is a good choice.

7. When the Caps Lock key on the keyboard is up, the QuickDraw acceleration is activated. Depress the Caps Lock key to deactivate the QuickDraw acceleration.

Experiment with scrolling through a document, and other screen-intensive operations with the QuickDraw acceleration feature activated and deactivated. Temporarily deactivating QuickDraw acceleration will provide a clear indication of the performance increase afforded by QuickColor acceleration.

You can return to the QuickColor Control Panel at any time during a work session to change the setting of the Caps Lock Key feature.



The Caps Lock Key feature is best used for temporary demonstrations of QuickDraw acceleration. Because QuickDraw acceleration is deactivated whenever the Caps Lock key is depressed, you *should not leave* this feature activated for your normal work with the Macintosh.

Chapter 6

Reference

This chapter contains troubleshooting tips and information about Radius Customer Support and Service.

General Troubleshooting

RadiusWare features are designed to make you more productive when working on large, high-resolution displays. However, should you experience difficulties with a particular application, the following steps will help isolate and resolve the problem.

1. Determine that the problem is repeatable and outline the steps required to duplicate it.
2. Verify that you are using Macintosh System Software version 6.0.7 or greater. Ideally, you should be using System Software version 7.1 or greater.

You can use the Finder to confirm your Macintosh System Software version. Choose About the Finder from the Apple (🍏) menu, and a dialog box will appear with System information. Consult your Radius Reseller for further information concerning Apple's latest releases.

3. Verify that you are using the latest version of RadiusWare and have the appropriate Radius ROMs (integrated circuit components installed on your interface card). Click the About... button in the Radius control panel to list the versions you are using, and then write down the versions. Contact your Radius Authorized Reseller for information on the latest releases of RadiusWare and Radius ROMs.
4. Verify that you are using the latest version of your application. Some incompatibilities may be resolved by upgrading to the most current version of the application.

5. Start your system from an original Macintosh System disk. If the problem persists, it is not caused by a conflict with RadiusWare.

If the problem is resolved by restarting from the System disk, make a copy of the disk and install RadiusWare into the System Folder on the copy. This will isolate RadiusWare from any other system files (referred to as INITs or cdevs) you may have in the System Folder of your normal startup disk. Then add the remaining INIT/cdev files from your normal System Folder one by one to see if any of them conflict with RadiusWare.

If, after repeating the above procedures, you believe a software conflict exists between RadiusWare and your application, contact Radius Customer Support to report the problem. Refer to the Radius Customer Support and Service section for more information.

Troubleshooting for the Pivot Display

A few possible difficulties that you may encounter with RadiusWare and your Pivot display are listed here with some suggested remedies.

The Macintosh desktop is not reoriented when the Pivot display is rotated.

1. Is RadiusWare installed in the System Folder of your startup disk? If not, then you must restart your computer every time you wish to change orientations.
2. Have you installed Soft Pivot, in addition to RadiusWare, in your System Folder? A Pivot connected to a built-in video port requires Soft Pivot to operate in both orientations.
3. Is the Master Switch on Page 1 of the Radius control panel set to Off? If so, turn the switch to On and restart.
4. Is the Dynamic Desktop switch on Page 2 of the Radius control panel set to Off? If so, turn the switch to On.
5. Is a dialog box on your screen? Close the dialog box before rotating the Pivot display.

6. Is your current application hiding the menu bar? You cannot flip when the menu bar is hidden.

While running an application, the “new” region of the screen is not properly re-drawn immediately after the Pivot display is rotated.

- Is the application listed in the Radius control panel with the Big Boundaries option set to ON? If not, refer to Specifying Big Boundaries for information on specifying Big Boundaries for an application.

After the Pivot display is rotated, the desktop icons are not reoriented to remain accessible in the display's new position.

1. Is the Finder Cleanup switch on Page 2 of the Radius control panel set to Off? If so, turn the switch to On.
2. Make Finder the current application by selecting it from the Apple (🍏) menu or cycling through applications in the top right-hand corner of the menu bar. After a flip, desktop icons are not reoriented until Finder becomes the active application.

Radius Customer Support and Service

Radius has created a worldwide authorized reseller network to provide extensive support in both sales and service. If you cannot return your equipment to the Reseller from whom you purchased your Radius system, or do not know the location of the nearest Radius Authorized Reseller, please contact the Radius information center at **(408) 434-1012** or **(800) 227-2795**. For Reseller information outside the United States, contact the local Radius International Distributor or write to:

Radius Inc

International Sales Department
1710 Fortune Drive
San Jose, California 95131-1744 USA
(408) 434-1010

If you have a problem, need answers to technical questions, or need information about product updates, you should contact your Radius Authorized Reseller for assistance. If you have a problem, be sure to that you have reviewed the trouble-shooting section of this manual, and have written out the following information prior to your call. This will expedite the diagnosis and correction of your problem.

- Radius product (s)
- Macintosh model and general configuration (hard drives and other peripherals)
- Version numbers of the following files:
 - RadiusWare
 - Soft Pivot
 - Radius Resolutions
 - Dynamic Desktop
 - System
 - Finder

If, after consulting with your Radius Authorized Reseller, you need further assistance, contact Radius Customer Support through any of the following:

Service	Address	Forum Address
<i>AppleLink</i>	RADIUS.Tech	Third Parties:Radius
<i>America Online</i>	RadiusTS	Keyword: RADIUS
<i>CompuServe</i>	76004,2155	GO APVENB, Library 14
<i>Internet</i>	support@radius.com	

Radius also maintains a multi-line BBS that contains the most-current software releases and other current information. This is available at **(408) 954-1689**, from 1200 to 9600 baud (V.32, V.42bis). Your terminal program must be able to emulate either VT100, VT52, or ANSI. Set your modem for no parity, 8 stop bits, 1 stop bit.

Telephone voice support is available at **(408) 434-1012**, Monday through Friday, 6:00 AM to 6:00 PM, Pacific Standard Time.

Radius Customer Service can also be reached via facsimile at **(408) 954-1015**.

The Radius FAX Information System

If you wish to take advantage of an immediate response system for information on Radius products and domestic suggested retail price lists, you can call one of the following numbers 24 hours a day, and by following the instructions, you will automatically receive the information you want by return-facsimile transmission.

- United States and Canada **(800) 966-7360**
- Local and International **(408) 954-6670**

RadiusCare in the United States

At Radius, we believe that excellent service and support are an important part of the product you receive. With your purchase, we include a free one-year warranty and highly responsive technical support.

To make sure that the package is complete and product care is continued, we offer RadiusCare as an investment in the product's future. For pennies a day, you can rest assured that your Radius products will be protected by an excellent service agreement and continued technical support for an additional year or two.

RadiusCare can be purchased from any participating Radius reseller in the U.S. when you buy your Radius equipment, or during the time the product is in its initial warranty period. There are over 1500 Radius Authorized Resellers waiting to serve you.

For the location of a participating, authorized U.S. Radius Reseller nearest you, call Radius at **(408) 434-1012**.

Communicating with Radius

The Radius telephone and facsimile numbers for various functions are summarized below for your convenience:

Developer Information	(408) 954-6600
Electronic On Line Service	(408) 954-1689
International Product Information FAX	(408) 954-6670 *
Main Corporate Number	(408) 434-1010
ReSeller Information	(800) 227-2795
Technical Information FAX	(800) 332-9255 *
Technical Questions (submittal) FAX	(408) 434-1015
Technical Support	(408) 434-1012
U. S. Product Info FAX	(800) 966-7360 *

* denotes an automatic FAX-back system to which you telephone instructions; you will need a facsimile machine to receive information

Radius International Sales Offices

Radius Canada telephone: (416) 777-9900
250 The Esplanade fax: (416) 777-9911
Suite 110
Toronto, Ontario, M5A 1J2

Radius France telephone: 3-1 4692-2335
BP422, Bureau 300 fax: 3-1 4692-2337
World Trade Center 2
CNIT, 2 place de la Défense
92053 Paris-la-Défense

Radius United Kingdom telephone: 4-635-38531
Mill Court, Mill Lane fax: 4 635-41286
Newbury, Berkshire, RG145RE

Radius K. K. (Japan) telephone: 1-3-5410-2480
Yanaba Bldg 5F fax: 1-3 5410-1624
6-7-10 Roppongi, Minato-ku, Tokyo

Radius GmbH (European Hq) telephone: (49) 69 950822-0
Berner Strasse 81 fax: (49) 69 950822-88
6000 Frankfurt am Main 50, Germany

Appendix A: Color Convergence Test

The following section explains how to conduct a convergence test for the display(s) connected to your Macintosh system.



The following feature is available only for *color* displays that provide the ability to adjust convergence settings, such as some models in the PrecisionColor Display family from Radius.

Convergence is a term that refers to the alignment of the Red, Green, and Blue beams within a color display. Optimum image sharpness and focus is obtained when the convergence is correctly adjusted; that is, when the three beams are precisely aligned — fall on one another.

The Convergence Test provided by Monitors control panel Options button presents three test screens that serve as visual aides to help you adjust the convergence settings for your display. Various displays label the user controls differently. Radius labels the control V-STAT and H-STAT for vertical static convergence and horizontal static convergence respectively.



Important: Only attempt convergence adjustment on displays with external user H-STAT (horizontal convergence) and V-STAT (vertical convergence) controls.

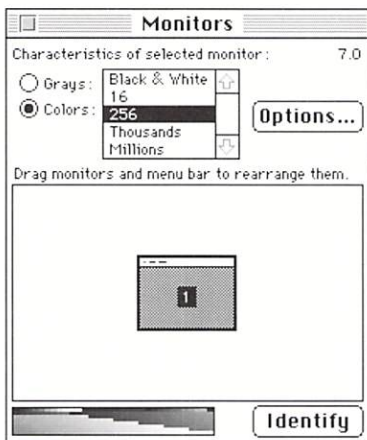


Monitors

Conducting the Convergence Test

To access the convergence test,

1. Quit any applications that are currently running on your Macintosh.
2. Choose Control Panels from the Apple menu.
3. Double-click on the Monitors control panel icon. The Monitors control panel will appear.



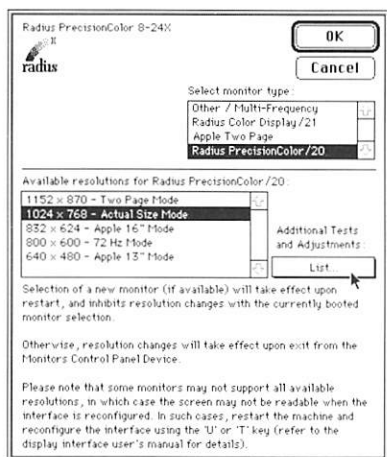
The Monitors control panel



If you have more than one display connected to your Macintosh system, click on the icon in the Monitors control panel that corresponds to the display you want to test.



4. Click on the Options button. The Monitors Options dialog box will appear, similar to the following diagram.

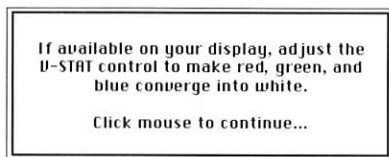


The Monitors Options dialog box



5. Click on the List pop-up menu.
6. Drag to select Convergence Check from the list of tests and adjustments.

The first screen displays a pattern of lines drawn horizontally. Follow the instructions in the user's manual provided with your display for making adjustments to achieve the optimum vertical convergence. A dialog box will appear on the screen, similar to the following diagram.



7. Click the mouse button when you have completed the adjustments.

The next screen displays a pattern of lines drawn vertically. Follow the instructions in the user's manual provided with your display for making adjustments to achieve the optimum horizontal convergence. A dialog box will appear on the screen, similar to the following diagram.

If available on your display, adjust the
H-STAT control to make red, green, and
blue converge into white.

Click mouse to continue...

8. Click the mouse button when you have completed the adjustments.

As a final check, the last screen displays a pattern of lines drawn vertically and horizontally on the screen. A dialog box will appear on the screen, similar to the following diagram.

Final check.

Click mouse to continue...

9. Click the mouse button when you have completed the adjustments.
10. Close the Monitors control panel.



The software and test patterns that appear on the screen have no impact on the actual convergence of the monitor. They are provided solely for the purpose of helping you adjust the controls on your display.

Appendix B: A/UX Compatibility

The A/UX Operating System is Apple's implementation of AT&T's UNIX System V operating system. A/UX is supported on the Macintosh II and Quadra families of computers and on the Macintosh SE/30.

All Radius display systems are compatible with Apple A/UX. However, because RadiusWare and Soft Pivot do not load under A/UX, Pivot display systems exhibit the following limitations:

1. Monochrome and Color Pivot displays connected to Pivot interface cards will operate in only native orientation.
2. A monochrome Pivot connected to a Macintosh built-in video port will operate in only portrait orientation.
3. An original Color Pivot connected to a built-in video port requires Soft Pivot for both portrait and landscape operation and hence is not compatible with A/UX in this configuration.

Because RadiusWare is not compatible with A/UX, you will not be able to take advantage of its features.



Important: Do not install RadiusWare or other Radius system software on the A/UX startup disk.

Appendix C: Software License Agreement

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This Agreement will be governed by the laws of the State of California, except for that body of law dealing with conflicts of law.

Should you have any questions concerning this Agreement, you may contact Radius by writing to Radius Inc., 1710 Fortune Drive, San Jose, CA 95131-1744.

You acknowledge that you have read this Agreement, understand it and agree to be bound by its terms and conditions. You further agree that it is the complete and exclusive statement of the agreement between us which supersedes any proposal or prior agreement, oral or written, and any other communications between us in relation to the subject matter of this Agreement.

Appendix D: Radius Warranty

LIMITED WARRANTY ON RADIUS MEDIA AND WARRANTY DISCLAIMER FOR RADIUS SOFTWARE

What is covered: This warranty covers physical defects in the manuals distributed with Radius software and the media on which Radius software is distributed, but does not cover the software itself.

Who is covered: You, as the original purchaser of this Radius product, are covered under this warranty. If you sell or give this product to someone else, that person will also be covered under this warranty.

For how long: One year from the original purchaser's date of purchase.

What we will do: Replace the defective manuals or media, without charge.

What we will not do: Pay inbound shipping, transportation or insurance charges, or accept responsibility for loss or damage in transit.

What you must do: Return the defective product, all transportation and insurance charges prepaid, to an Authorized Radius Reseller within the country of original retail purchase. Please include your name, address, telephone number, a description of the problem and a copy of a bill of sale bearing a Radius serial number as proof of original retail purchase. If you do not know the location of an Authorized Radius Reseller in your area, please contact Radius at the address listed at the back of this manual.

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Printed in the United States on recycled paper

June 1993

Part 000-0553-02

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